ABRIAL OUTFITS

Aerial Outfits are designated by one or two letters preceded by the word "group" and referred to as "Aerial Outfit Group"

Group	Service
AB	Main aerials of Capital Ships, Cruisers and Depot Ships.
AD	Uninsulated wire loop aerial for D/F. Aerial suspended from triatic stay or from a stay from the foremast.
AB	Insulated wire loop serial for D/F suspended from a stay from the foremast.
AP	Insulated wire loop serial for D/F situated at the masthead.
an	Rod aerials for Submarines.
AP	Rod serials for "THAMES" and "PORPOISE".
AQ	Cable aerials for Submarines.
AR	Cable aerial for "OBEROM" Class and later Submarines.
AS	Cable aerial for "UNITY" Class Submarines.
P	Main aerials of Flotilla Leaders and below, and Second Office aerials of Flotilla Leaders.
¥	Main aerials of Submarines with sets earlier than 39%, 46M or 47P
N	Small transmitting aerials of cruisers and above. Small transmitting aerials of Flotilla Leaders and below and all receiving aerials.
S	Main aerials of Submarines with Type 39X and later.
V	For D/F at the masthead of certain Cruisers and larger vessels.
Special	For D/F in Aircraft Carriers.
TA	Used with 8-in. uni-pole aerial trunk.
TB	Used with 8-in. di-pole serial trunk.

Used with 18-in. aerial trunk.

Merial Trunk Outfits

TC

ABRIAL EXCHANGE OUTFITS

iomenolature :-

The outfits of stores for Aerial Exchange Outfits are supplied independently of other sets. They are distinguished by two letters, the initial letter of which is "E".

Outfit	Principal Components	Roma rk s
BA	Board, aerial exchange, 6/0, Board, Valve Test. Filter units for aerial.	Obsolescent.
EC	Board, aerial exchange, 10 aerials/12 bays. Board, Valve Test. 12 Filter units for Serials, (9 fitted, 3 in reserve).	Tribal Class destroyers only. The Board, aerial exchanges, in BC and SD are identical.
BD .	Board, aerial exchange, 10 aerials/12 bays. Board, Valve Test. 12 Filter units for aerials, (12 fitted).	Pilters are only supplied if ship is fitted with Insulators, Deck, Group OA, for receiving aerials.
ES	Board, aerial exchange, 5 aerials/6 bays.	Leaders, Tribals, Destroyers and Fast Mine- layers with "All Wave Receivers", in which filter units are incor- porated.
B.P	Board, aerial exchange, 10 aerials/12 bays.	Cruisers and above with "All Wave Receivers", in which filter units are incorporated.

BATTERY OUTFITS.

The outfits of stores for batteries with their charging arrar are distinguished by two letters, the first of which is "B".

- 2. Suffix letters (L) and (C) are used with the distinguishing I for Battery Outfits to indicate the woltage of the anode battery.
 - (L) Indicates 50 volt anode battery.
 - (C) Indicates 100 volt anode battery.

Battery Outfits (L) or (C) are fitted according to the anode voltar equired for the receiving outfits supplied.

(<u>Note</u> - Battery Outfits BBa and BBb invariably have 100 wolt anode batteries and therefore have no suffix.)

- 3. Receiver filement batteries are of 4 wolts (duplicated) in all outfits. Transmitter filement batteries are of 6 volts (duplicate in all outfits (when fitted).
 - 4. The capacities of the various pattern cells are as follows:-

アンシアR		ىد	ampere-pour	at	the	5 hour rate.
5503		40	ampere-hour	at	the	5 hour rate.
6034C		3	ampere-hour	at	the	5 hour rate.
6038a	• • • •	110	ampere-hour	at	the	5 hour rate.
7541 6706		220	ampere-hour	at	the	5 hour rate.
6706		10	ampere-hour	at	the	20 hour rate.

BATTERY OUTFITS.

	CUIP-	PATTERN C		F CELLS.		CHARGING OF	
FIFIT	BOARD.	REC. FIL.	REC.	TRANS.	20 v. BATT.	BATTERIES.	REMARKS.
BA.	D	6038 <u>a</u>	60340		1551В	Boards 2F and one generator.	
18 4	G(C)#	5503	6034C			20 volts or ship's mains.	Types 49 or 50 in second offices. Type 49 in Flotilla Leaders and Destroyers: main office. Type 51LV. * If in second office except Type 51LV.
₩ВЪ	L	5503	6034C		75 4 1	20 wolt battery or ship's mains.	Type 50 in main office. Type 49 in main office.
BC	D	6038A	6034C		15 51 B	20 volt mains.	
BD	P	6038a	6034C	•	1551B	Boards 2G and 2 generators.	Type 34HX ("HERMES") Types 35S and 36S/M (later fittings). Type 45 in auxiliary office of heavy ships. Type 48/X/Y.
36	C	6038A	603 4 0	6038A	15518	20 wolt mains,	Type 37/S/M in second offices of ships earlier than "LEANDER".
BP	E	5503	60 3 4 0	6038a		Ship's mains.	Type 44 (100/110 wolt ships only).
₿G	D	75 4 1	6034c		1551B	Boards 2G and 2 generators.	Types 35S and 36S (earlier fittings), Type 45 (if outfit already supplied).
9 સ	С	7541	60340	75 4 1	155 1B	Ship's mains,	Types 37/S/M in destroyers earlier than "ACASTA" class, and where specially approved.
BK	C	6038a	6034C	6038a	1551В	Ship's mains,	Alternative to BJ for Types 37/S/M in destroyers earlier than "ACASTA" class.
BL	D (if any)	7541	6034c			Boards 2L and 2G. 2 Generators,	•
BM	H (if _. any)	5503	6034c			Boards 2K and 2F. 1 Generator.	Турэ 47/Р.

Boards 2K and 2F.
1 Generator.

7541 6034c

BN

D

PATTERN OF CELLS.

60340 5503

TRANS.

FIL.

REC.

ANODE

6034c

CUP-

G

H

BOARD.

REC.

FIL.

5503

5503

OUTFIT.

BP

BQ

BATTERY OUTFITS (Contd.)

20 ▼.

BATT.

1551B

1551B

CHARGING OF

BATTERIES.

20 wolt mains

20 volt mains

RKMARKS.

Types 37/S/M in second offices of

later.

"LEANIER" class and

Type 33HX ("HERMES")
Type 45 in auxiliary

office of cruisers.

							Type 75/X (not if set is fitted in auxiliary office where 100 volt anode battery is already supplied.
BR	H(C)	5503	6034C			20 wolt mains.	
B\$	B	6038A	6034 0	6038A	15518	Ship's mains,	Types 37/S/M in destroyers. "ACASTA" class and later.
BT	D	6038A	6034 C			Ship's mains,	Also Pattern 1551B (8 wolts) for exercise set.
Bu	G	5503	6034C	55 03		Ship's mains.	Type 37/S/M in Netlayer and similar small craft fitted with transmitter 4H.
B V	D	6038A	60340			Boards 2K and 2F. 1 Generator.	Type 39X*. 83. * Ships fitted with outfit BL to retain it.
BW	H	5503	60340		15518	Ship's mains.	Type 33A ("SANDPIPER" only). Types 37/A/S/M in sloops, gumboats, etc., not fitted with transmitter 4H. Type 388/M.
BX	J	15518	6034C		15518	Ship's mains.	Type 43/A if fitted in separate office.
BY	J	15518	6034c		-	Ship's mains.	Type 33A if in separate office. Type 45 if in separate office. SD, RA, RC, RM, LMI, FAI, FHI, FH2.
BZ		6038A	6034C		15518	Generator and separate apparatus,	Types 2, 14.

OUTFIT

DDA

MACHINES.

(220 v. or 110 v.)

2 - 200 watt

1 - 800 watt

1 Booster.

alternator (220 v.)

DED

A.C. SUPPLY OUTFITS.

PRINCIPAL USBS.

Certain Submarines prior to "CLYDE" and "SALMON".

REMARKS.

Where an alternative

source of supply is

available from main

office.

			1
DDB	Uses transmitter filament alternator (500 cycles)	"PORPOISE" only.	For use in Submarines
DDC	2 - 200 watt alternators (220 v. or 110 v.) 2 Boosters.	"CLYDE", "SALMON" and later submarines,	only.
סופער	2 800 watt alternators (220 v. or 110 v.) 2 Boosters.	"T" and "U" submarines.	
102	2 - 800 watt alternators (220 volts) 2 Boosters.	C. R.R. in cruisers.	Any one of three rectifiers in C.R.R. can be supplied from emergency machine in 2nd Office (outfit DG).
DG	1 - 100 watt alternator (20 volts)	2nd W/T office of cruisers and above.	Mormal supply obtained from auxiliary office. Has 2 position switch. In Position 1:- Rectifier for 2nd office is supplied from auxuliary office. DG machine supplies C.R.R. Position 2:- Rectifier for 2nd office is supplied from outfit DG.
DH	2 - 800 watt alternators (220 volts or 110 volts) 1 - 100 watt alternator (20 volts) 2 Boosters,	Auxiliary office of cruisers and above, Main office of Leaders and below	Also supplies 2nd office (which is only fitted with cutfit DG). Emergency 20 volt alternator fitted with DH supplies own office only.
DEB	2 - 800 watt alternators (220 v.) 2 Boosters.	For use with Type 73X.	

2nd W/T office of

Leaders.

OUTFIT.

DSA

MACHINES.

A.C. SUPPLY OUTFITS (Contd.)

PRINCIPAL USES.

REMARKS

Ŋ	2 - 200 watt alternators (220 or 110 volts) 1 - 100 watt alternator (20 volts) 2 Boosters	Destroyers, Escort vessels and below.	
DK	1 - 100 watt alternator (20 volt)	2nd office of Flotilla Leaders and Tribals.	2nd office is normally supplied from main office.
DL	2 - 2 kW.alternators (220 v. or 110 v.) 1 - 100 watt alternator (20 v.) 2 Boosters.	C.R.R.'s of cruisers and above. Auxiliary offices of cruisers. Main office of Tribals, Flotilla Leaders and below.	
DLC	2 - 2½ kW. alternators (220 v. or 110 v.) 1 - 100 watt alternator (20 v.) 2 Boosters.	Transmitter rooms of ships fitted with C.C.S.	20 v. emergency alternator is only fitted if T.R. contains Type 49C.
DM	Transmitter alternators (500 cycles).	No.1 T.R. of "WARSPITE" only.	

S.R.E.

alternator (220 v.)

A.C. SUPPLY OUTFITS (Contd.)

OUTFIT.	MAC	CHINES.	PRINCIPAL USE	s.	REMARKS.		
DN	Transmitter alternators (500 cycles).		No. 2 T.R. of "WARSPITE" only.				
	1 - 100 v (20 vo)	matt alternator					
DO	1 - 200 v (220 v. 1 Booster	•	D/F offices where an source of supply is a available.				
DQB		or 110 v.)	Auxiliary office of capital Ships and carriers. Main office of mine- sweepers and patrol vessels.		Also supplies 2nd office.		
DRB	2 - 2½ kW	. alternators	C.R.R. of cruisers and above. 2nd office of depot ships. Auxiliary office of cruisers. Main office of Leaders & below.				
DRC	2 - 21 kW (220 v. 2 Booster	-	Transmitter rooms of C.C. ships.				
Note 2:-	a special 20 volt battery is fitted to drive it if 20 volt ship's supply is not available. **Ste 2:- As a general rule outfits DND, DQB, DRB and DRC are intended for offices fitted with all-wave receivers. **WAVEMETERS AND OSCILLATORS**						
-		Frequency	Range in Kilocycles.	Remar	ks and Accuracy.		
Wavemet. 1- g2 g3 g6 g7 g8		47,00 24,00 18,75 5,00 1,50	5-2720 0-100,000 0-50,000 0-33,300 0-25,000 0-6,000	1.0% 1.0% 1.0% 0.5% 0.5%	Obsolescent.		
G11 G12 G13	69 3 611 1 612 2,30		0-3,000 0.5% 0-46 0.5% 0-6,000 1.0% 0-20,000 1.0%				
0scillat G31 G33 G35 G36	tors	2,300 1) 1)	0-15,000 5-24,000 5-25,000 Type 72X.	Used Used	with G7, G8. with G56. with G61, G62.		
Wavemet. 956 957 958 959 960 961 968		100 20,500 70,000 For Ty 1,000	5-24,000 0-24,000 0-80,000 0-240,000 ype 72X 0-25,000	± 0.1	c/s over whole ge. . kc/s over whole		

use.

WAVEMETER

Marconi Radiation Indicator Type 200A

OUTFIT.

WAVENETER OUTFITS.

MAIN UNITS.

OUIF 11.		
GA	Heterodyne wavemeter with rack, and used as a portable wavemeter when required.	G56 G33 Supply unit box carrying. Rack.
GB	Heterodyne wavemeter fitted in existing rack or to be used as a portable wave-meter.	G56 G33 Supply unit box carrying.
GC	Non portable heterodyne wavemeter supplied with a rack.	G56 G33 Rack.
GD	Non portable heterodyne wavemeter fitted in an existing rack.	G56 G33
Œ	Portable heterodyne wavemeter.	G56 Supply unit box cerrying.
GF		
GG		
GН	Crystal wavemeter, rack mounted, for ships without central control.	G61 G62 G35/2 Wavemeter Transmitter Exchange. Power Unit. Rack.
GI	Crystal wavemeter, rack mounted, for C.R.Rs. in ships with central control.	G61 G62 G35/2 Power Unit. Rack.
GJ	Crystal wavemeter, rack mounted, for T.Rs. in ships with central control.	G61 G62 G35 Wavemeter Transmitter Exchange. Power Unit. Rack.
GK	Crystal wavemeter, rack mounted, for ships where space is restricted.	G61
GL	Crystal wavemeter, rack mounted for hangars of aircraft carriers.	G61 G62 G35 Power unit. Rack.

NATURE OF

MACHINES.

REMARKS

WARNING TELEPHONES

SOURCE OF

OSCILLATORY CURRENT.

TYPE

	OSCILLATORI CORRESI.	MACHINES.	
401	Transmitter. Amplifier. (Special Valves).	Motor Generator,	Obsolete.
402	14 Panels consisting of 1 Transmitting. 2 Amplifying. 1 Relay. 8 Power Valve. 2 Controlling. 8 MR15A. 48 MR16A*.	2 Motor Genérators. 120 watts, 9 v., and 63 watts, 21 v.	*16 additional for a 5 group installation.
405	2 Panels HT18 4 HR26 2 HR27 4 HR28 4	Motor alternator. 800 watts, 230 v., 50 cycles, 24 v. battery.	·
404	2 Panels (1) Input unit. Amplifier intermediata. Supply Unit. (2) Amplifier Power. Fuse Unit. 2 MT18 1 MR26 1 MR27 4 MR28	Motor Alternator. 800 watts, 230 v., 50 cycles, 24 v. battery.	For Type 404A. 2 MR47 2 MUS 2 MT36 in lieu of MT18. *Add driver unit for 404A.
405	3 Frameworks consisting of Input amplifier. Intermediate amplifier. Power amplifier. Input unit. Supply unit, power. Switch unit, output. 4 MT36 4 MU7 2 NR45 6 NR31 2 NR46 2 NR47 2 NU3	Motor Alternator likw 230 v., 50 cycles.	
406	2 Frameworks lst Frame consisting of combined input, intermediate and L/F amplifier. Power amplifier 100 watts. Switch Unit input.	2307. 50 cycle single phase,	In C.W.S. ships Distributer Board in C.C.O. annexe.
406	2nd Frame consisting of combined input intermediate and L/F amplifier. Power amplifier 100 watts. Switch unit output.	Power 1300 V/A or 650 V/A for each channel;	In Mon C.W.S. ships special 5KW A/C Supply outfit,

Switch unit output, 8 MR31 4 HR44 2 MR45 2 MR46 4 12736 2 1012